

FIG. 1

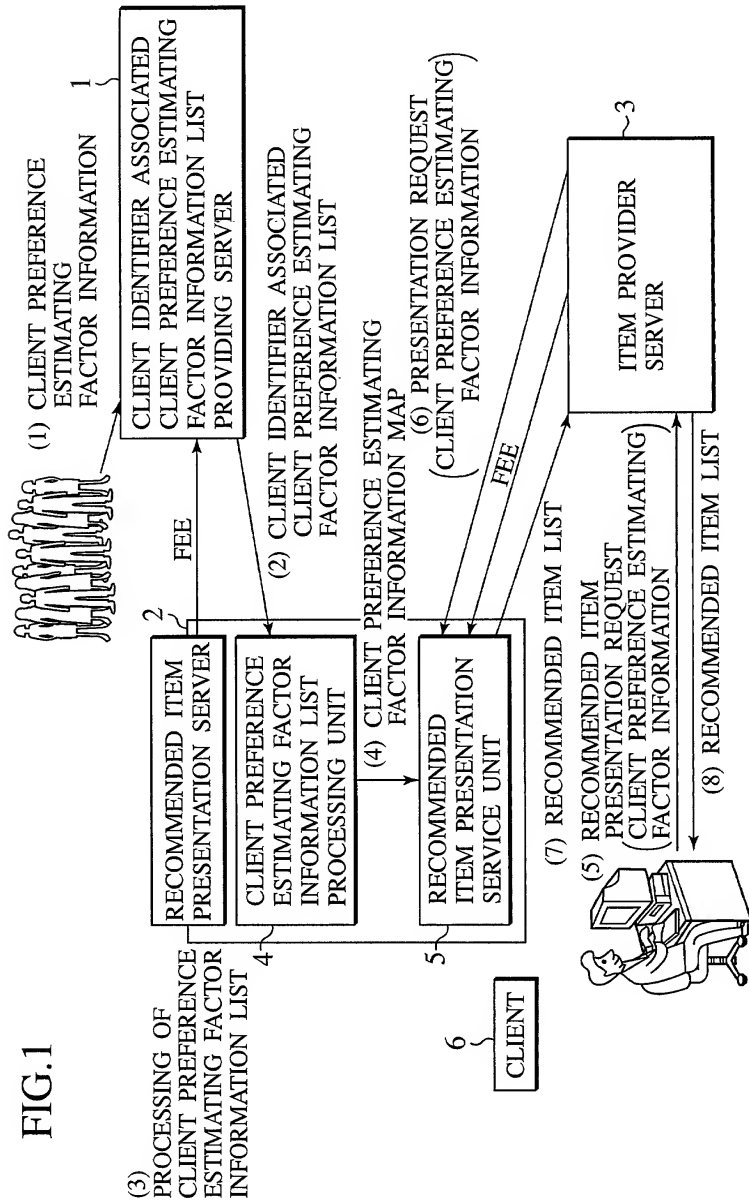


FIG.2

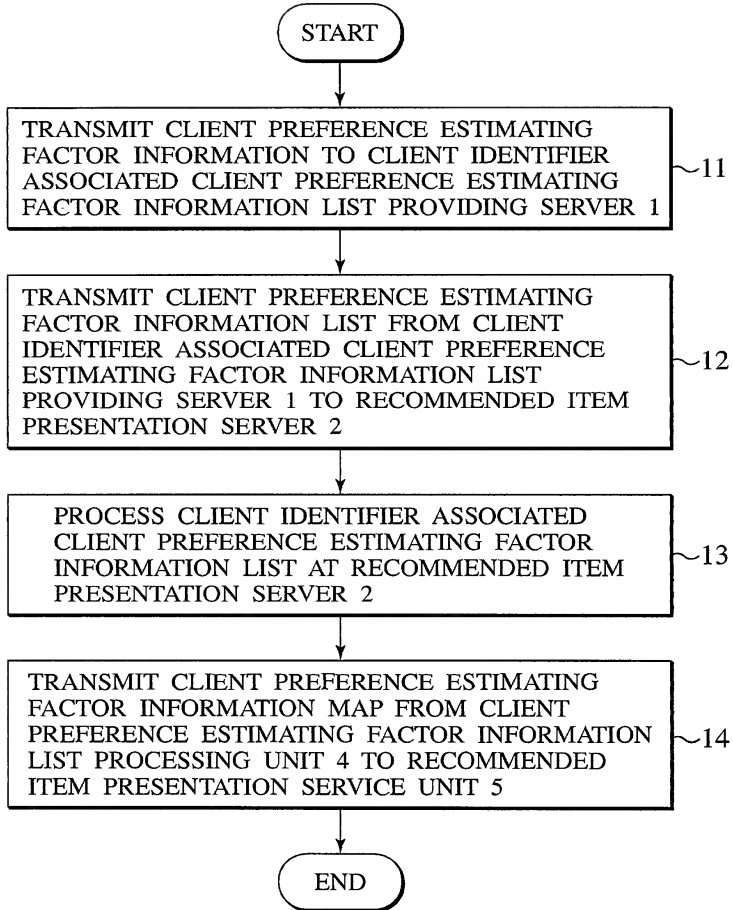


FIG.3A

NUMBER OF CLIENTS ↗

CLIENT IDENTIFIER gTxNa8r4EoQ4rCZv	
ITEM IDENTIFIER	ACCESS DATE & TIME
10115	2000/02/14
455	2000/02/05
28163	2000/03/12
⋮	⋮
⋮	⋮

FIG.3B

NUMBER OF CLIENTS ↗

CLIENT IDENTIFIER gTxNa8r4EoQ4rCZv	
ITEM IDENTIFIER	RATING
10115	1
455	8
28163	3
⋮	⋮
⋮	⋮

FIG.3C

NUMBER OF CLIENTS ↗

CLIENT IDENTIFIER gTxNa8r4EoQ4rCZv	
ITEM IDENTIFIER	
10115	
455	
28163	
⋮	
⋮	

FIG.4

ITEM IDENTIFIER	CLIENT IDENTIFIER		1	2	3	4	.....	.....	1,000,000
1					1				
2			1					3	
3						100			
4				2			1		1
:			3						
:						1		2	12
:				2					
1,000,000			2				4	1	

(EACH VALUE INDICATES NUMBER OF  
ACCESSES OR RATING)

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FIG.5

CLIENT IDENTIFIER	ITEM IDENTIFIER#1	RATING#1	ITEM IDENTIFIER#2	RATING#2			ITEM IDENTIFIER#n	RATING#n
1	3532	1	101	4			55	100
2	82378	2	894	5			278	100
3	3058	1	893	3			98143	100
4	957	4	109	9			3987	100
:								
3987	3	1						
:								
1,000,000	9184	1	25898	3			98	100

FIG.6

ITEM IDENTIFIER	CLIENT IDENTIFIER#1	RATING#1	CLIENT IDENTIFIER#2	RATING#2			CLIENT IDENTIFIER#n	RATING#n
1	58	1	22	4			388791	100
2	32175	2	58348	5			4128346	100
3	3987	1	2467	3			98143	100
4	957	4	8852	9			38999	100
:								
3532	283	1						
:								
1,000,000	1643278	1	652815	3			787974	100

FIG.7

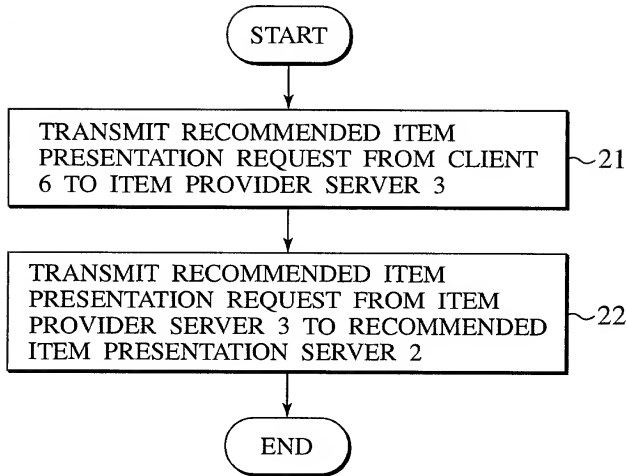


FIG.8

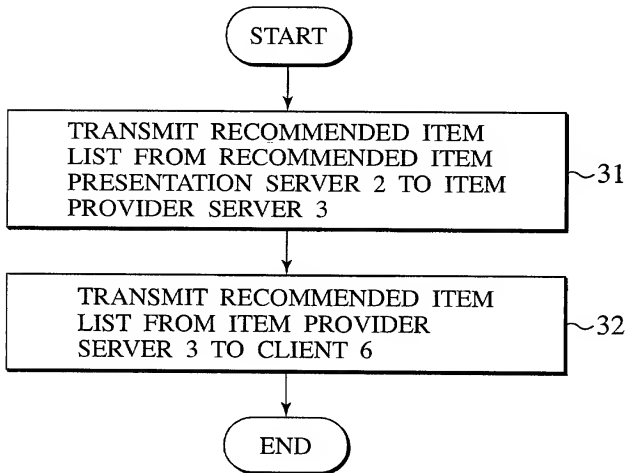


FIG. 9

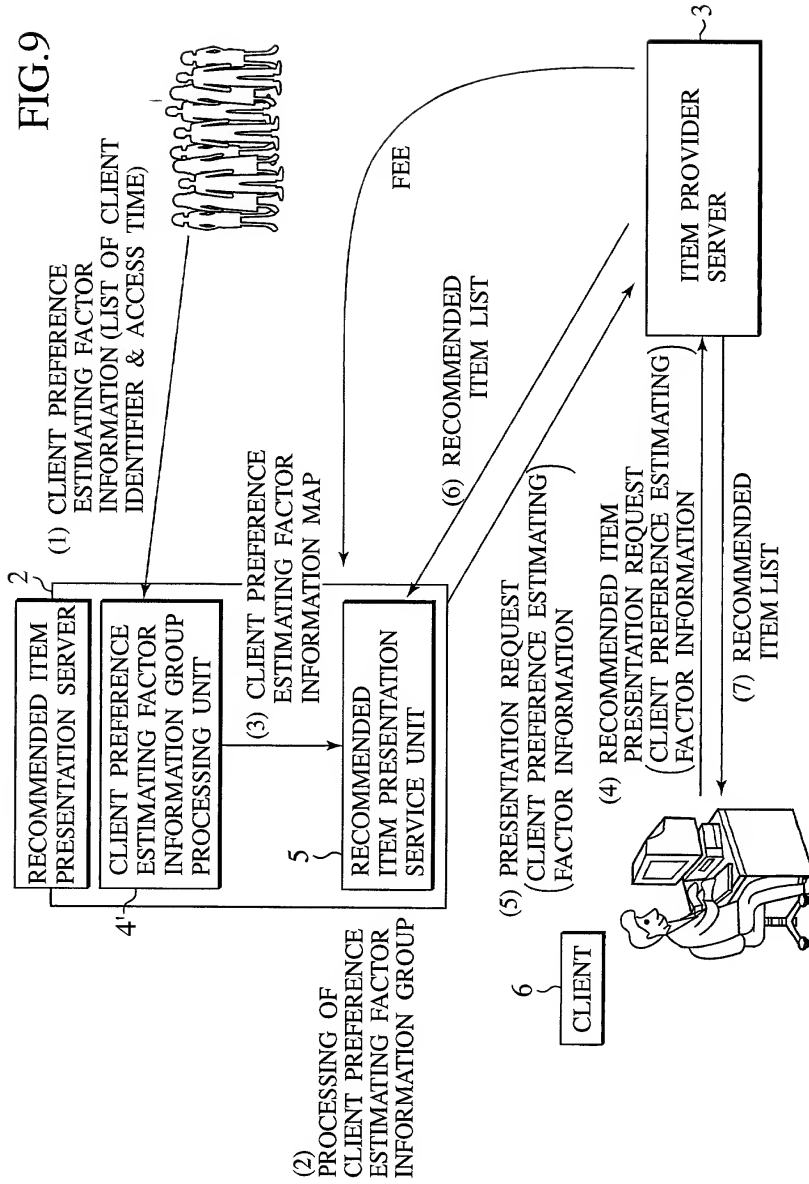


FIG.10

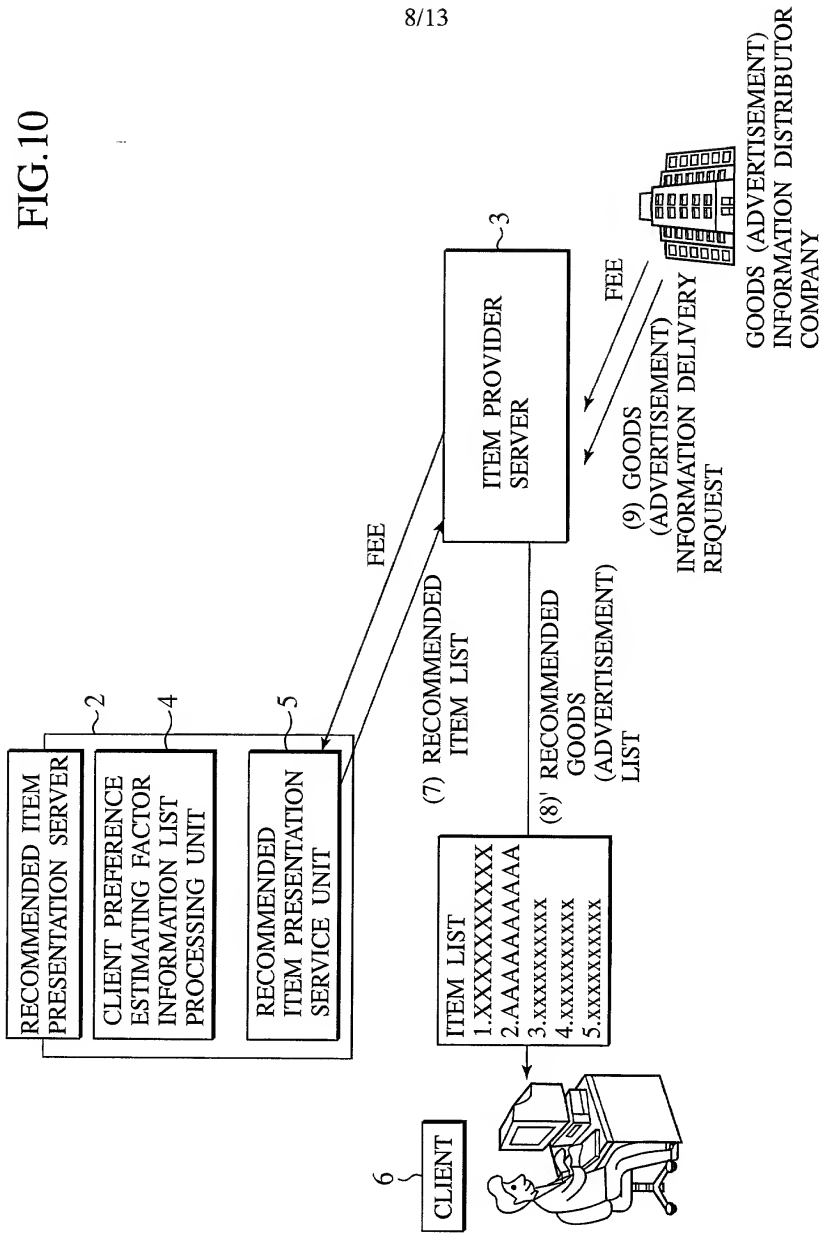




FIG.11

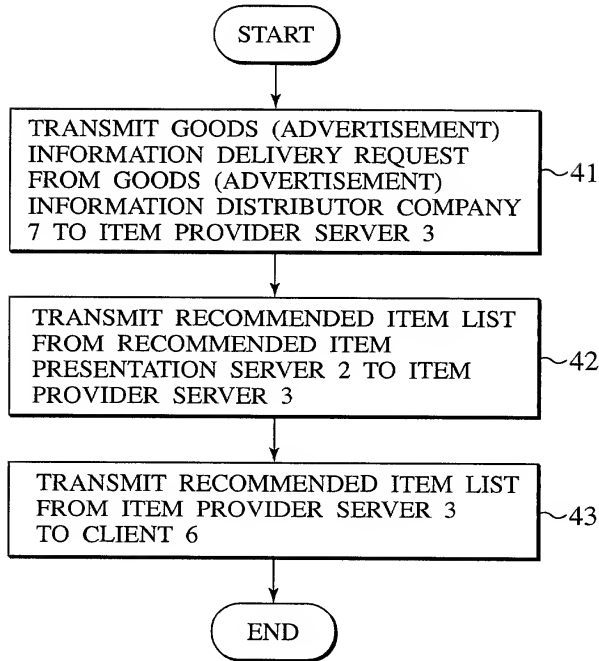


FIG.12

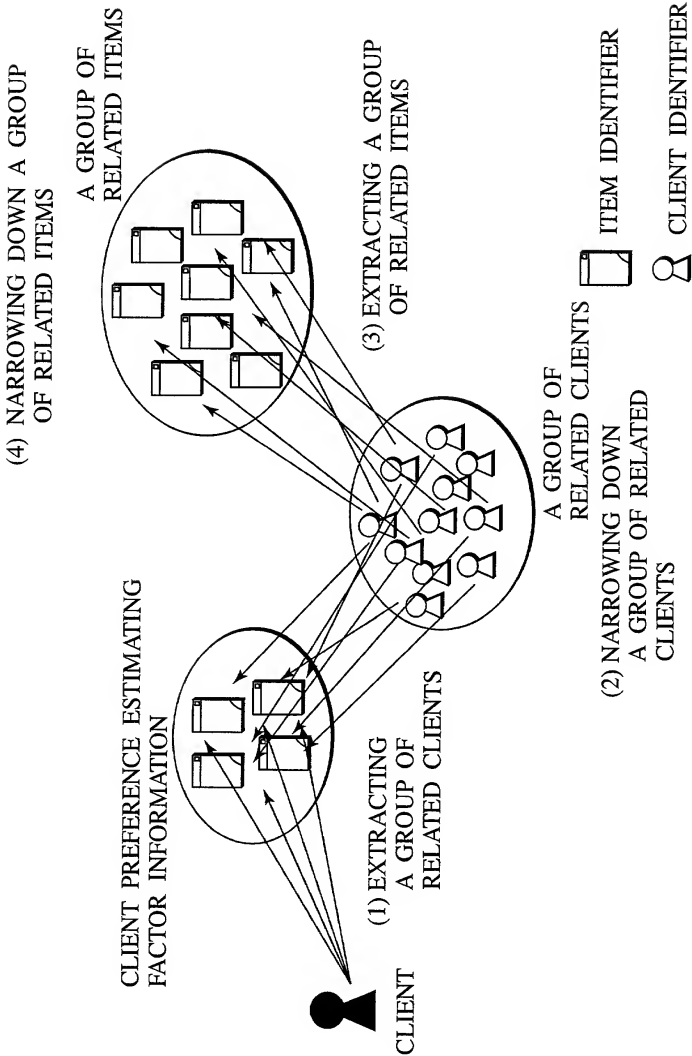


FIG.13

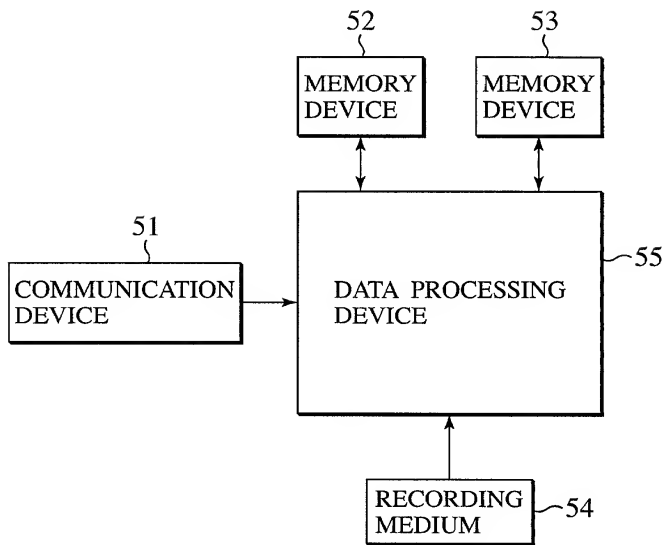
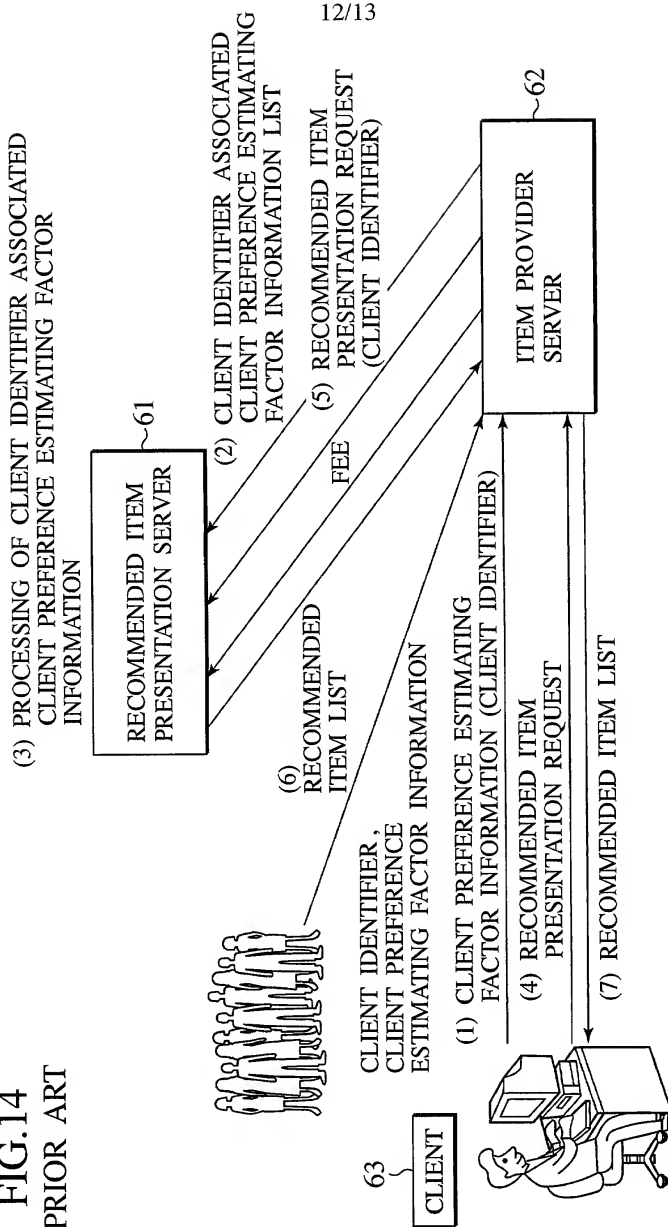


FIG. 14  
PRIOR ART



**FIG.15**  
**PRIOR ART**